# Children First Oklahoma's Nurse-Family Partnership

State Fiscal Year Annual Report 2019

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#### **PROGRAM OVERVIEW:**

#### **HISTORY**

In 1996, the Oklahoma State Legislature authorized legislation to create Children First. Representatives from Tulsa Children's Consortium, the Oklahoma State Legislature and the Oklahoma State Department of Health (OSDH) reviewed home visiting models and chose to implement the "Olds Model," now known as Nurse-Family Partnership (NFP). Implementation began in state fiscal year (SFY) 1997 with pilot sites in Garfield, Garvin, Muskogee and Tulsa counties. Current funding supports approximately 80 nurse home visitor and nurse supervisor positions.

Oklahoma utilizes the NFP model to improve child health outcomes and minimize risk factors known to contribute to child maltreatment. The NFP model is based on more than four decades of research by David Olds, Ph.D. and colleagues, and strives to:

- Improve pregnancy outcomes by helping women alter their health-related behaviors, including reducing use of cigarettes, alcohol and illegal drugs.
- Improve child health and development by helping parents provide more responsible and competent care for their children.
- Improve families' economic self-sufficiency by helping parents develop a vision for their own future, plan future pregnancies, continue their education and find work.<sup>1</sup>

It has been recognized by the United States Department of Health and Human Services as an evidence-based model, and demonstrated "top tier" evidence of effectiveness by the Coalition of Evidence-Based Policy. In addition, it has been endorsed by the Centers for Disease Control and Prevention (CDC) as a program that has great potential to reduce the economic burden of child maltreatment.<sup>2-4</sup> NFP has shown favorable results in moderate to high quality impact studies related to: maternal health, child health, child development, school readiness, positive parenting practices, family economic self-sufficiency; and reductions in child maltreatment, juvenile delinquency, and family violence/crime.<sup>2</sup>

#### **MISSION**

The mission of Children First is to empower first-time eligible families to care for themselves and their babies by providing information and education, assessing health, safety and development, and providing linkages to community resources, thereby promoting the well-being of families through public health nurse home visitation, ultimately benefiting multiple generations.

#### **VISION**

The Children First vision is to promote a continuum of healthy pregnancies, healthy babies, healthy families and healthy communities.

#### **SERVICES**

Home visitation services are provided through the county health departments under the OSDH and the independent city-county health departments in Oklahoma and Tulsa counties. A first-time mom, referred to as a client in this report, is enrolled prior to 29 weeks of pregnancy. Specially trained public health nurses provide assessments, education, information and linkages to community services in order to meet the needs identified for each family.

Nurse home visitors follow public health protocols and evidence-based NFP visit guidelines, providing a systematic and comprehensive nursing approach that focuses on six domains of functioning: personal health, environmental health, maternal life course development, maternal role development, networks for supportive relationships, and utilization of services. Standardized assessment tools assess risk for depression, substance abuse, intimate partner violence, physical abnormalities, child growth and developmental delays. Services rendered by

the nurses are not intended to replace services provided by the Primary Care Provider (PCP). In fact, nurses often consult and collaborate with both the client's and child's PCP to ensure continuity of care and improved health outcomes. Children First services are provided to:

- Improve maternal health throughout pregnancy and after the child's birth.
- Improve child health and development from birth to age two.
- Enhance family functioning and family stability.
- Improve maternal life course development.
- Decrease the risk of injury, abuse and neglect.

## **OVERVIEW:**

## **SCREENING TOOLS**

- Patient Health Questionnaire (PHQ9) (Client)
- Generalized Anxiety Disorder (GAD-7) (Client)
- Health Habits Questionnaire (Client)
- Intimate Partner Violence Questionnaire (Client)
- Ages and Stages Developmental Questionnaire (Child)
- Ages and Stages Social-Emotional Questionnaire (Child)
- Dyadic Assessment of Naturalistic Caregiver-Child Experiences (DANCE) (Client & Child)

#### **NURSING ASSESSMENTS**

- Brief Health Assessment of Client and Child
- Vital signs of Client and Child
- Client Weight and Blood Pressure
- Child Weight, Height and Head Circumference

#### **ENROLLMENT**

Women enrolling in the Children First program must meet the following criteria:

- The participant must be a first time mother.<sup>5</sup>
- The monthly household income must be at or below 185% of the federal poverty level.
- The mother must be less than 29 weeks pregnant at enrollment.

Participation in Children First is voluntary. While the NFP intervention is designed to start early in the pregnancy and continue until the child's second birthday, clients are not obligated to participate for any finite length of time.

#### **VISIT SCHEDULE**

The suggested visit schedule is as follows:

- Weekly for four weeks following enrollment.
- Every other week until the baby is born.
- Every week during the six-weeks postpartum period.
- Every other week until the child is 21 months of age.
- Monthly until the child turns 2 years of age.

Nurses may see clients more or less frequently based on the needs, or at the request of the client.

#### **PROGRAM COSTS**

During SFY 2019, a total of \$5,099,770 was expended on Children First activities. Funding sources included state appropriations, county millage, and Medicaid reimbursements, as well as federal funds from the Community-Based Child Abuse Prevention Grant and the Maternal, Infant and Early Childhood Home Visiting Grant. The cost per family was \$3,910 (total expenditures divided by the number of families served).

# **CHARACTERISTICS:**

#### **PARTICIPANTS**

Reports show that home visitation programs have the most benefit for young mothers with low financial, social or psychological resources.<sup>6</sup> In addition to these characteristics, the NFP model is designed specifically to target first-time pregnant women to provide the best chance of promoting positive behaviors.<sup>7</sup> Throughout the years, Children First has been successful in enrolling clients who meet these characteristics. The following demographics reflect the status of new Children First clients at enrollment during SFY 2019, unless otherwise stated.

#### HOUSEHOLD INCOME

In order to participate in Children First, the client must not have a household income less than 185% of the federal poverty level. This dollar amount varies based on the number of people in each household. For a single woman living alone, an income of \$22,549 would meet the financial criteria. For a couple expecting their first baby, the amount increases to \$30,451.8 More than half (58%) of new Children First enrollees in SFY 2019 had an annual household income of \$20,000 or less, including 13% who were dependent on a parent/guardian.

HOUSEHOLD INCOME*	PERCENT
Client is dependent on parent/guardian	13%
≤\$3,000	17%
\$3,000-\$6,000	5%
\$6,001-\$9,000	5%
\$9,001-\$12,000	10%
\$12,001-\$15,000	6%
\$15,001-\$20,000	15%
\$20,001-\$30,000	17%
\$30,001-\$40,000	6%
≥ \$40,000	2%
Client declined to answer	6%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

#### AGE OF CLIENT

The median age of new enrollees in SFY 2019 was 21 years of age, and the age range was 13 to 42 years of age. At enrollment, 31% of Children First clients were under the age of 20, and 73% were under the age of 25.

AGE OF CLIENT*				
Under 18	18-19	20-24	25-29	30 & OLDER
9%	22%	42%	20%	8%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

## **EDUCATION**

In SFY 2019, 71% of Children First enrollees in SFY 2019 had completed high school or a GED.

EDUCATION		
Completed High School	Completed GED	Did not complete GED or High School
68%	3%	29%

#### **MARITAL STATUS**

In SFY 2019, 78% of Children First clients were single, never married.

MARITAL STATUS*			
Single, never married	Married	Separated	Divorced
78%	20%	1%	2%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

#### RACE/ETHNICITY

More than half (60%) of Children First clients in SFY 2019 identified themselves as White. One quarter (25%) identified as Black, Asian or American Indian.

RACE/ETHNICITY**					
White	Hispanic	Black or African	Asian	American Indian or	Other
	-	American		Alaska Native	(includes multiracial)
60%	24%	17%	4%	4%	8%

<sup>\*\*</sup>Not all clients chose to indicate one race/ethnicity.

#### **EMPLOYMENT**

Over half (54%) of Children First enrollees in SFY 2019 were unemployed at the time of enrollment. Slightly less than a quarter (23%) were employed full-time.

EMPLOYMENT*	PERCENT
Part Time Employment (less than 10 hours per week)	2%
Part Time Employment (10-19 hours per week)	6%
Part Time Employment (20-36 hours per week)	14%
Full Time Employment (37+ hours per week)	23%
Not employed and seeking employment	10%
Not employed (student, homemaker, other)	44%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

## **HOUSEHOLD COMPOSITION**

Of the clients who live with others, over half (59%) lived with the father of their child in SFY 2019.

HOUSEHOLD COMPOSITION***	PERCENT
Father of Child	59%
Other Family Members	42%
Client's Mother	31%
Husband/Partner (not father of the child)	3%
Other Child	3%
Other Adults	16%

<sup>\*\*\*</sup>Percentages based on those who live with others, and clients could select more than one option.

#### **HEALTH CONCERNS**

Pregnancy and birth outcomes are impacted by a client's pre-pregnancy health status. Nurses utilize well-developed tools and questionnaires to assess the client's health status at enrollment. As partners, the client and nurse develop a plan of care to reduce factors associated with poor birth outcomes. The number one health concern identified at enrollment was having a high body mass index. A little more than over half (55%) of Children First clients were identified as overweight or obese (pre-pregnancy weight). Only 39% of new enrollees did not have at least one health concern at the time of enrollment in SFY 2019.

Children First nurse home visitors follow the Prenatal Weight Gain Management Policy, and work with the client to develop a plan of care for a high body mass index. Nurses use a patient-centered approach to ensure the best outcomes for the client and the baby.

HEALTH CONCERNS****	PERCENT
High Body Mass Index (overweight + obese)	55%
Depression	27%
Asthma	16%
Previous Miscarriage, Fetal or Neonatal Death	9%
Diabetes	2%
High Blood Pressure	6%
Chronic Infections (urinary/vaginal)	9%

<sup>\*\*\*\*</sup>Clients could select more than one option; therefore, some tables may not always appear to add up to 100%.

#### LIFE STRESSORS

Assessments performed at enrollment yield information on the types of stressors experienced by Children First clients. Questionnaires are designed to elicit information about the client's social environment such as family stressors, incarcerations, etc. Nurses use this information to assist families in identifying areas for behavioral change and accessing needed community services.

LIFE STRESSORS****	PERCENT
Close family member became sick or died	29%
Client became separated or divorced	12%
Person close to the client had a problem with drinking or drugs	18%
Client was very sick	10%
Client was in a physical fight	6%
Client's husband/partner was sent to jail	7%
Client was in extreme debt	9%
Client lost job	14%
Client's husband/partner lost job	11%
Client was without a phone	11%
Client & child did not have enough food	7%
Client went to jail	3%

<sup>\*\*\*\*</sup>Clients could select more than one option; therefore, some tables may not always appear to add up to 100%.

## **MATERNAL HEALTH OUTCOMES:**

#### PRENATAL CARE

Beginning prenatal care in the first trimester and attending regular prenatal visits help to ensure a healthy pregnancy and increase the probability of having a healthy baby. By allowing a

healthcare provider to identify potential problems early, the majority of pregnancy and birthrelated health issues can be prevented. Children First nurse home visitors stress the importance of early and adequate prenatal care as well as connect clients to a PCP. During the course of the pregnancy, the nurse home visitor and PCP are in contact and share pertinent health information about the client to ensure continuity of care. Consequently, 91% of Children First clients who gave birth in SFY 19 received 10 or more prenatal care visits.

#### **GENERAL ANXIETY DISORDER**

Generalized anxiety disorder (GAD) is characterized by excessive anxiety and worry about a variety of events or activities that occur frequently, for at least six months. People with GAD find it difficult to control their worry, which may cause impairment in social, occupational or other areas of functioning. An estimated 5.7% of U.S. adults experience GAD at some time in their lives. The Generalized Anxiety Disorder-7 (GAD-7) screening is administered at Intake, when the child is 6 months, 12 months, 18 months and 24 months of age and as indicated. Children First nurse home visitors are trained to help mothers identify stressors and help the mother construct a plan to overcome her anxiety. There were 1,238 GAD-7 screenings completed for 905 clients. Of those, 23% of clients screened using the GAD-7 indicated signs of anxiety and required a referral to a healthcare or mental health provider.

## **POSTPARTUM DEPRESSION**

Postpartum depression can be treated. A CDC study showed that about one 1 out of 10 women in the U.S. experience symptoms, and 1 in 9 pregnant women. Early detection of postpartum depression is a goal of Children First. The Patient Health Questionnaire (PHQ-9) screens for depression and are administered at enrollment, 36 weeks pregnancy, during the first 8 weeks postpartum, between 4-6 months postpartum, at 12 months postpartum, and at any time that signs or symptoms of depression are suspected. If the screening indicates signs of depression, the Children First nurse home visitor immediately connects the client to a healthcare or mental healthcare professional, and follows up at the next visit. There were 1,548 PHQ-9 depression screenings administered to 820 clients. Approximately, 23% of clients screened indicated signs and symptoms of depression and required referral to a healthcare or mental health professional.

#### **SMOKING CESSATION**

Smoking is one of the most important known preventable risk factors for low birth weight and preterm delivery, as well as many other adverse pregnancy and birth outcomes. <sup>12</sup> Additionally, exposure to secondhand smoke is a major cause of childhood disease and illness such as asthma. <sup>13</sup> Children First nurse home visitors utilize motivational interviewing techniques to guide behavior change, and refer smokers to the Oklahoma Tobacco helpline as well as their PCP to help with decreasing tobacco use.

SMOKING CESSATION: INTAKE TO 36 WEEKS OF PREGNANCY*	PERCENT
Clients who reduced or quit smoking by 36 weeks of pregnancy	4%
Clients who quit, reduced, or never began smoking between intake and 36 weeks	95%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

SMOKING CESSATION: INTAKE TO CURRENT*	PERCENT
Clients who did not smoke at intake and still do not smoke	89%
Clients who smoked at intake and still smoke	6%
Clients who decreased smoking since intake	3%
Clients who increased or began smoking since intake	4%

<sup>\*</sup>Due to rounding, percentages in some tables may not always appear to add up to 100%.

## ANTICIPATORY GUIDANCE AND HEALTH EDUCATION TOPICS

Children First nurse home visitors work diligently to provide anticipatory guidance, and health education on a variety of topics in an effort to significantly reduce the incidence of illness and injury, and promote child growth and development. When clients were asked about specific topics such as those included in the table below, it was evident that nurses frequently provided more information on anticipatory guidance and health education when compared to PCPs or other providers.

ANTICIPATORY GUIDANCE AND HEALTH EDUCATION TOPICS	NURSE HOME VISITOR	PCP OR OTHER
How smoking during pregnancy could affect your baby	97%	79%
Breastfeeding your baby	98%	82%
How drinking alcohol during pregnancy could affect your baby	97%	76%
Using a seatbelt during your pregnancy	84%	30%
Birth control methods to use after your pregnancy	94%	66%
Medicines that are safe to take during your pregnancy	85%	90%
How using illegal drugs could affect your baby	97%	68%
Doing tests to screen for birth defects or diseases that run in your family	86%	83%
What to do if your labor starts early	95%	66%
Getting tested for HIV (the virus that causes AIDS)	76%	68%
Physical abuse to women by their husbands or partners	95%	40%
How UTIs and yeast infections could affect you and your baby	93%	64%
How STDs could affect you and your baby	92%	64%
How Strep B could affect you and your baby	87%	70%
How to position your baby when he/she goes to sleep	96%	56%
How to prevent your baby from getting injured	96%	44%

## **CHILD HEALTH OUTCOMES:**

#### **GESTATIONAL AGE AND BIRTH WEIGHT**

Gestational age is the number of weeks between the date when the last normal menses began and the date of birth. Full term is defined as a pregnancy lasting 39-40 weeks. Preterm birth is the birth of an infant prior to 37 weeks gestation, and very preterm defines those born prior to 32 weeks gestation. According to the CDC, preterm birth and low birth weight accounted for about 17% of infant deaths and is the leading cause of long-term neurological disabilities in children. Preterm and low birth weight also costs the United States' healthcare system more than \$26 billion each year. Babies born weighing at least five pounds and eight ounces (2,500 grams) are considered normal birth weight. Babies born weighing less than five pounds and eight ounces are considered low birth weight, and very low birth weight infants are those weighing less than three pounds and five ounces (<1,500 grams). Babies born at low and very low birth weight have increased risk for health problems and developmental delays. Children First nurse home visitors perform a brief health assessment at every visit during the prenatal period that evaluates weight and blood pressure, signs and symptoms of pre-eclampsia, infections, and preterm birth and low birth weight risk factors.

## **NEONATAL INTENSIVE CARE UNIT**

Babies born early, with low birth weight or other birth complications, may spend time in the Neonatal Intensive Care Unit (NICU). Time spent in the NICU may inhibit attachment and

bonding between mother and baby. The physical assessments by Children First nurse home visitors are intended to reduce the risk of preterm labor and low birth weight babies, and prevent entry into the NICU. If the baby needs to be admitted to the NICU, the Children First nurse tailors the curriculum to help the mother care for her baby's unique needs. In SFY 2019, 12% of Children First clients reported their baby spent time in the NICU. A total of 8% of all Children First babies were born preterm and 2% very preterm; 9% were born with low birth weight and 1% very low birth weight.

#### **BREASTFEEDING**

The American Academy of Pediatrics and the American College of Obstetricians and Gynecologists promote breastfeeding because of the benefits for both mother, including healing faster and decreased risk for some cancers later in life, and baby, like decreased risk of illness and Sudden Infant Death Syndrome (SIDS). Children First nurse home visitors provide facts about the benefits of breastfeeding as well as dispel myths. Additionally, these nurses demonstrate breastfeeding holds using models. After the baby is born, they assist the mother with breastfeeding challenges or questions, and connect the client with a lactation consultant when necessary. Among Children First clients who gave birth in SFY 2019, 92% initiated breastfeeding with their new infant.

#### **DEVELOPMENTAL MILESTONES**

Children First uses the Ages and Stages Questionnaire, a developmental screening tool, to assess cognitive, language, motor, problem-solving, social, and emotional milestones for children. These screenings are administered regularly, beginning when the child is four months of age. If the scoring tool indicates a potential delay, the nurse will refer the client to SoonerStart (early intervention), Child Guidance or the child's PCP.<sup>15</sup> There were 1,565 Ages and Stages Questionnaires (ASQ-3) completed among clients. In addition, 802 Ages and Stages Social-Emotional Questionnaires (ASQ:SE-2) were completed. There were 46 referrals made to SoonerStart and 23 referrals to Child Guidance services because of these screenings.

## **IMMUNIZATIONS AND WELL-CHILD EXAMS**

Children First nurse home visitors encourage and refer clients to the child's PCP to maintain an up-to-date status for child immunizations and well-child examinations. Immunization records are retrieved from the state database and reviewed with the client. Clients can also use these records as proof of immunization when enrolling in early care and education (ECE). The Children First nurse will review the assessments completed by the PCP during the well-child visit with the client to build an understanding of the child's health.

At their most recent home visit, 95% of clients reported their child was up-to-date on immunizations, and 90% were current on their well-child exams. At 24 months, more than three quarters of children were up-to-date on their immunizations (89%) and well-child exams (84%).

## CLIENT STORY, TULSA HEALTH DEPARTMENT





Susan Gonzalez enrolled in the Children First Program in Tulsa, Oklahoma in December of 2017, when she was 25 weeks pregnant with triplets. Susan was ready to start a family with her partner Luis, but she was very surprised she was carrying triplets. Both Susan and Luis were working full-time during the pregnancy. At 26 weeks gestation Susan was admitted to the hospital on bed rest until delivery. Susan was concerned about her job, but her extended family was supportive. Susan went into labor at 32 weeks gestation and delivered Sebastian, Mateo, and Emmanuel via C-section. The three boys spent 40 days in the NICU. Sebastian was the smallest weighing 2 pounds, and Emmanuel was the largest weighing 3 pounds 5 ounces. Susan pumped breastmilk in the NICU for the infants, and supplemented with formula. The Children First nurse home visitor educated Susan on breastfeeding multiples, and referred her to a lactation appointment for assistance. All three children received breastmilk until three months of age.

"I knew getting the breastmilk was important for them. I wish I could have continued longer, but it was challenging pumping, feeding and needing to supplement."

The Children First nurse home visitor and Susan discussed her plans for the future, and formed a plan to address her goals. Susan, Luis, and the three boys moved into her parent's apartment after the boys were discharged.

"We needed help with the boys, and we wanted to save money to get a two bedroom apartment."

Susan began looking for work when the boys were 4 months old.

"I struggled with the decision to work. I wanted to be with the boys, but I had to help provide for our family."

Susan started working full-time at McDonald's in July 2018. The Children First nurse home visitor performed a postpartum depression screening (PHQ-9) and discussed results with Susan, a referral was made to counseling services and a letter was sent to her PCP. Susan started taking her anti-depressant medication at this time after experiencing some mild postpartum depression.

"I had a history of depression in the past, so I knew I was at risk. I was so tired all the time. I began feeling better after starting my medication."

Susan and Luis both were doing well at their jobs and moved into a one-bedroom apartment in the same complex as her parents.

"They were such a big help with the boys, we wanted to live close by."

Susan began the management training program at McDonald's earning more money and working full-time. The Children First nurse home visitor performed an ASQ:SE-2 screening at six months. After discussing some concerns with the scores in the gross motor and problem solving sections of the screening, the boys began physical and occupational therapy for delays due to their prematurity.

"When the boys turned one, I was so glad they were staying on track with their development. It was challenging taking them to all of their appointments, but I knew it was important."

The Children First nurse home visitor and Susan began thinking about ways to help the boys with socializing with other children. Susan explored her available resources and began considering early childhood development education for the boys when they were 15 months old.

"I think it would be good for them to be around other children in a positive learning environment. I don't just want them to be with a babysitter, I want them to learn."

Susan was apprehensive about childcare in the past, but when she learned more about Child Abuse Prevention (CAP) Tulsa from her Children First nurse home visitor, she was ready to apply.

"They can also help me and Luis when we are ready to go back to school."

The boys started at CAP Tulsa in August of 2019 at 18 months of age. Susan and Luis saved their money and moved into a two-bedroom apartment. Susan is now working at a healthcare facility as an activities coordinator, leading group activities for the patients.

"I am making more money and am only working part-time."

Susan plans to return to school in the future and is looking into programs for both her and Luis to have a career they love doing.

"We really want to be able to get a house someday, with a yard for the boys to play in and a dog."

Susan and Luis have accomplished a lot in their time with Children First, and will continue to accomplish their heart's desire.

## **FAMILY SAFETY OUTCOMES:**

#### INTIMATE PARTNER VIOLENCE

Intimate partner violence is a serious, preventable public health problem that affects millions of Americans. Physical, sexual, or psychological harm caused by a current or former partner not only negatively affects the physical and emotional well-being of the mother, but her children as well. <sup>16</sup> Children First nurse home visitors assess their clients at intake, 12 weeks postpartum,

when the child is 16 months of age, and as needed using a questionnaire that asks about physical, sexual, and emotion abuse. If any concerns arise, the client with the help of the nurse creates a safety plan and a referral is made to local domestic violence services.

- 87% of clients who were not experiencing domestic violence at intake and are still not experiencing domestic violence.
- 7% of clients who were experiencing domestic violence at intake, but are now not experiencing domestic violence.
- 3% of clients who were not experiencing domestic violence at intake, but are now experiencing domestic violence.
- 3% of clients who were experiencing domestic violence at intake and are still experiencing domestic violence.

Children First nurse home visitors work with families to build strong protective factors, such as quality relationships and social supports, to decrease the risk of intimate partner violence.

#### **INJURY PREVENTION**

According to the CDC, unintentional injuries such as suffocation, drowning, motor vehicle crashes, and burns are the leading causes of death and disability for children one to four years of age, and the fifth leading cause in children less than one. Children First nurse home visitors conduct a home safety check with the family when the child is 2 months, 10 months and 21 months of age. These safety checks include an inspection of the crib to ensure a safe sleep environment that is free from stuffed animals, bumper pads, pillows, and other people; inspection of smoke detectors, including number, placement, and working order; and multiple discussions about car seats, water safety, gun safety, etc. Children First has worked in collaboration with the Oklahoma State Department of Health Maternal and Child Health Services (MCH) to provide cribs for families in need that meet specific criteria. In SFY 2019, MCH distributed 152 portable cribs to families in need and 82 (54%) of those cribs were distributed to Children First families. Nurses provide education and/or referrals when areas of concern regarding safety are identified.

## Safe Sleep

Over half (52%) of Children First clients with a child two months of age reported never cosleeping with their child, and 36% reported co-sleeping with their child only some of the time in SFY 2019.

#### Car Seat Safety

Children First clients (98%) reported always traveling with their child in a car seat in SFY 2019.

## Fire Safety

Children First clients (89%) had at least one working smoke detector.

# Water Safety

Children First clients (99%) reported never leaving their child unattended near water in SFY 2019.

#### **CHILD MALTREATMENT**

Of the 1,055 children who received at least one home visit from Children First in SFY 2019, 980 of them (93%) had not been named as a potential victim in an Oklahoma Department of Human Services (OKDHS) report after enrolling in the program. Furthermore, 1,041 clients (99%) have not had a confirmed child maltreatment case with OKDHS since enrollment. None of the Children First children served had been named in a report to OKDHS for sexual abuse. In spite

of working with high risk families, it is noteworthy that only 5% of the clients served had been reported for potential maltreatment.

## **CASES OF MALTREATMENT**

The data below is related to the 14 confirmed cases of maltreatment among children participating in Children First.

GENDER OF VICTIM	PERCENT			
Male	50%			
Female	50%			
TYPE OF MALTREATMENT				
Abuse	86%			
Neglect	14%			
Both	0%			
TYPE OF ABUSE				
Threat of Harm	33%			
Other (includes: beating/hitting, exposure to domestic violence, failure to protect,	67%			
inadequate or dangerous shelter, inadequate physical care, and thrown)	07 /6			
TYPE OF NEGLECT				
Threat of Harm	50%			
Other (includes: burning/scalding, failure to obtain medical attention, failure to				
protect, failure to provide adequate nutrition, inadequate or dangerous shelter,				
inadequate physical care, and lack of supervision)				
PERPETRATORS				
Mother	28%			
Father	72%			
Grandparent	0%			
Other family member (aunt, uncle)	0%			
No Relation	0%			

## **FAMILY STABILITY OUTCOMES:**

## **FATHER INVOLVEMENT**

When fathers are involved in the lives of their children, the children are more likely to exhibit healthy self-esteem and do well in school. 18 Children First nurse home visitors encourage the father of the baby to participate in all home visits. If the father is unable to participate, activities are left with the mother for the father to use at a later date. The importance of the client's personal relationships is discussed, including having a supportive relationship with the person who gives mutual emotional and monetary support.

- 78% of biological fathers spent at least once per week taking care of and/or playing with their child.
- 85% of mothers see or talk to the baby's biological father at least once per week.
- 7% of mothers increased from intake the frequency of time seeing or talking to the baby's biological father.
- 13% of biological fathers did not spend time with their child at all.

## PREGNANCY SPACING

The amount of time between pregnancies, known as the inter-pregnancy interval, is calculated as the number of months between the date the last pregnancy ended and the date of the last

menstrual period prior to the subsequent pregnancy. According to the CDC, women with short inter-pregnancy intervals may be at risk for poor pregnancy outcomes. <sup>19</sup> The recommended time between birth and the next pregnancy is a minimum of eighteen months. <sup>20</sup> Children First nurse home visitors educate clients on the importance of family planning. Referrals are made as needed to the local county health department or the client's PCP for birth control services. Only 15% of Children First clients served were pregnant with their second child before their first child reached one year of age. By the time their first child reached 18 months of age, 24% of clients were pregnant with their second child.

## **SOCIOECONOMIC INDICATORS**

Economic security is important to the well-being of children and families. Poverty places families with children at risk of experiencing unhealthy outcomes. The stress of unemployment places a burden on parents, and financially strains the family. Parents with less education often have lower household incomes; even if they are employed full-time.<sup>21</sup> Children First nurse home visitors connect their clients to local services to further their education and/or obtain a job, thereby increasing their income. Financial aptitude by using credit wisely and saving money are all topics covered during visits, including building money management skills.

## Employment

Among the Children First clients who were unemployed at intake, 28% had found work by the time their child was 6 months of age.

# • Household Income

Among the Children First clients served, 43% increased their household income by the time their child was 12 months of age.

#### Education

Among the Children First clients over the age of 18 who did not have a high school diploma or GED at intake, 32% earned their high school diploma or GED by the time their child was 18 months of age.

## **CHILDREN FIRST ACTIVITITES:**

#### **REFERRALS**

Each team of nurses has developed unique strategies to reach potential clients in their respective counties. Lead nurses have provided outreach to private physicians, the Indian Health Service, the Oklahoma Heath Care Authority, public schools and local community agencies. There were 2,432 referrals made to the Children First program. Of these, 1,468 met the eligibility guidelines. Among the women who were not eligible to participate, referrals were made to the OSDH Child Guidance program and home visitation programs such as Parents as Teachers and SafeCare.

REFERRALS TO CHILDREN FIRST	NUMBER
Women, Infants and Children (WIC)	1,295
Health Department Family Planning	551
Other (including HMO, Judicial, other home visiting programs)	171
Oklahoma Health Care Authority	5
Pregnancy testing clinic (Non Health Department)	6

Community-based agency	14
Community Connector	24
Current/Past C1 Client	8
School	10
Department of Human Services/SNAP	3
Hospital, Medical Provider, Private physician	15
Faith Based Organization	4
Family/friend/neighbor	8
Health Department Maternity	3
parentPRO-brochure/website	6
Connect First	55
Unknown/missing	87
Total	2,265

TYPE OF REFERRAL AND SERVICE	NUMBER
Referrals	2,265
Eligible Referrals	2,074
New Enrollees	739
Families Served	1,304
Completed Visits	12,433
Births	333

Due to budget restraints in SFY 18, the OSDH was faced with several difficult financial decisions, including not refilling vacant Children First nurse home visitor positions. Consequently, nurse attrition increased during this same timeframe. Nurses were concerned about sustainability of the program. Families were still able to obtain referrals to home-based parenting or other services by contacting the parentPRO hot line.<sup>22</sup>

Fortunately, in SFY 2019, the county health departments were able to post and hire positions vacated during the previous fiscal year budget crisis, and are diligently working to rebuild the program to capacity.

ParentPRO is a free service that connects families to home-based parenting services. Families can call 1-877-271-7611 and speak to a referral specialist, or they can navigate the website to find services in their area. During SFY 2019, parentPRO referred 135 potential clients to home-based services and 19 of those were referred to Children First. ParentPRO is designed to provide a continuum of services to fit the needs of all families seeking parenting support.<sup>22</sup>

Children First Program	Completed Visits	Referrals	Families Served	New Enrollees	Births	Average Length of Enrollment <sup>¶</sup>	Median Length of Enrollment <sup>¶</sup>
Adair CHD	235	24	22	10	5	498	480
Alfalfa CHD	0	0	0	0	0	0	0
Atoka CHD	0	0	0	0	0	0	0
Beaver CHD	0	0	0	0	0	0	0
Blaine CHD	0	0	0	0	0	0	0
Caddo CHD	8	8	<5	<5	0	516	516
Canadian CHD	209	34	15	14	5	434	371
Carter CHD	188	38	21	15	6	447	299
Cherokee CHD	527	33	51	24	11	565	545
Choctaw CHD	208	26	17	5	6	564	602
Cimarron CHD	0	0	0	0	0	0	0
Cleveland CHD	1,490	181	137	74	35	453	393
Coal CHD	0	0	0	0	0	0	0
Comanche CHD	515	151	58	42	16	390	261
Cotton CHD	<5	0	<5	0	0	954	954
Craig CHD	84	6	16	<5	<5	592	704
Creek CHD	6	17	<5	6	0	96	96
Custer CHD	<5	6	<5	<5	0	72	72
Delaware CHD	312	18	25	<5	<5	696	731
Dewey CHD	0	0	0	0	0	0	0
Ellis CHD	0	0	0	0	0	0	0
Garfield CHD	0	0	0	0	0	0	0
Garvin CHD	0	0	0	0	0	0	0
Grady CHD	<5	<5	<5	0	0	890	890
Grant CHD	0	0	0	0	0	0	0
Greer CHD	0	0	0	0	0	0	0
Harmon CHD	0	0	0	0	0	0	0
Harper CHD	0	0	0	0	0	0	0
Haskell CHD	0	<5	0	0	0	0	0
Hughes CHD	34	19	8	9	0	210	125
Jefferson CHD	26	<5	<5	<5	0	666	666
Johnston CHD	92	11	10	12	<5	273	179
Kay CHD	0	<5	0	0	0	0	0
Kingfisher CHD	70	18	16	9	<5	426	211
Kiowa CHD	<5	0	<5	0	0	1195	1195
Latimer CHD	0	0	0	0	0	0	0
Le Flore CHD	370	45	44	33	6	391	241
Lincoln CHD	179	37	22	10	7	444	314
Logan CHD	286	46	31	14	11	503	475

Love CHD	43	<5	<5	0	<5	617	617
Major CHD	0	0	0	0	0	0	0
Marshall CHD	64	6	11	14	<5	279	189
Mayes CHD	61	<5	9	<5	<5	688	768
McClain CHD	156	15	16	<5	<5	457	334
McCurtain CHD	296	89	44	38	0	207	133
McIntosh CHD	0	0	0	0	0	0	0
Murray CHD	0	0	0	0	0	0	0
Muskogee CHD	0	<5	0	0	0	0	0
Noble CHD	0	0	0	0	0	0	0
Okfuskee CHD	<5	<5	<5	<5	0	80	80
Oklahoma CCHD	2,704	540	315	156	97	414	318
Okmulgee CHD	0	<5	0	0	0	0	0
Osage CHD	0	0	0	0	0	0	0
Ottawa CHD	169	46	30	15	<5	494	433
Pawnee CHD	0	<5	0	0	0	0	0
Payne CHD	25	0	<5	0	0	532	532
Pontotoc CHD	0	0	0	0	0	0	0
Pottawatomie CHD	254	108	31	26	7	371	323
Pushmataha CHD	52	14	8	<5	<5	407	417
Rogers CHD	0	<5	0	0	0	0	0
Seminole CHD	121	28	17	15	<5	290	192
Sequoyah CHD	66	48	8	6	<5	346	232
Stephens CHD	32	36	<5	<5	<5	347	363
Texas CHD	0	0	0	0	0	0	0
Tulsa CCHD	3,545	592	324	168	93	439	358
Wagoner CHD	0	<5	0	0	0	0	0
Washington CHD	0	0	0	0	0	0	0
Woods CHD	0	0	0	0	0	0	0
Woodward CHD	0	0	0	0	0	0	0
Totals <sup>β</sup>	12,433	2,265	1,304	739	333	466 (Average)	363 (Median)

Included clients who have had at least one completed home visit in SFY19 and whose start and end dates conform to the following:

- Start date was prior to SFY19, but end date within SFY19
   Start date was prior to SFY19, but end date/still enrolled after SFY19
   Start date was within SFY19, but end date/still enrolled after SFY19
- 4. Start date and end date were both within SFY19

 $<sup>^\</sup>beta \text{Totals}$  may be under/overestimates due to data suppression (<5).

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